

Title (en)

System and method for closed loop inspiratory pressure control in a ventilator.

Title (de)

Vorrichtung und Verfahren zur Steuerung eines geschlossenen Regelkreises zum Einatmungsdruck in einem Beatmungsgerät.

Title (fr)

Système et méthode pour le contrôle en bouche fermée de la pression inspiratoire d'un respirateur.

Publication

EP 0615764 A1 19940921 (EN)

Application

EP 94301859 A 19940316

Priority

US 3325993 A 19930316

Abstract (en)

The method and system for controlling airway pressure in a ventilator during the inspiratory cycle by controlling the flow of breathing gas through a flow supply valve at a desired rate of supply flow and venting the breathing gas at a desired rate of outflow through a relief valve to achieve the desired airway pressure. Measurements of the rates of actual supply flow, the actual outflow through the exhalation/relief valve, and the pressure in the airway are compared with desired values for determination the amount of error for feedback control of the ventilator system. <IMAGE>

IPC 1-7

A61M 16/00

IPC 8 full level

A61M 16/00 (2006.01); **A61M 16/20** (2006.01)

CPC (source: EP)

A61M 16/024 (2017.07); **A61M 16/20** (2013.01); **A61M 16/204** (2014.02); **A61M 16/206** (2014.02); **A61M 16/205** (2014.02); **A61M 16/209** (2014.02); **A61M 2016/0039** (2013.01); **A61M 2016/0042** (2013.01)

Citation (search report)

- [A] US 4527557 A 19850709 - DEVRIES DOUGLAS F [US], et al
- [A] EP 0402951 A2 19901219 - AKASHI MANABU [JP]
- [A] US 4838257 A 19890613 - HATCH GUY M [US]

Cited by

EP0990448A3; EP1621223A3; EP1077666A4; EP2044921A1; EP0774269A1; US5937853A; US8464714B2; WO2006117591A1; WO2006117379A3; US10589042B2; US11957835B2; US7156095B2; US8544464B2; US9144653B2; US9308345B2; US9981093B2

Designated contracting state (EPC)

DE FR GB IE IT

DOCDB simple family (publication)

EP 0615764 A1 19940921; **EP 0615764 B1 19990519**; CA 2118958 A1 19940917; CA 2118958 C 20050607; DE 69418514 D1 19990624; DE 69418514 T2 19990916; JP 3615238 B2 20050202; JP H07516 A 19950106

DOCDB simple family (application)

EP 94301859 A 19940316; CA 2118958 A 19940314; DE 69418514 T 19940316; JP 4606494 A 19940316